

INTERNATIONAL SEARCH REPORT

International Application No
PCT/FI2005/000113

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21C9/16 D21C9/10 D21C5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 D21C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 014, no. 030 (C-678), 19 January 1990 (1990-01-19) & JP 01 266295 A (NIPPON SHOKUBAI KAGAKU KOGYO CO LTD), 24 October 1989 (1989-10-24) cited in the application abstract	1-26
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 18, 5 June 2001 (2001-06-05) & JP 01 148890 A (NIPPON SHOKUBAI KAGAKU KOGYO CO LTD), 12 June 1989 (1989-06-12) cited in the application abstract	1-26
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

12 September 2005

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23/09/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Naeslund, P

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CA 2 441 841 A1 (UNIVERSITY OF NEW BRUNSWICK) 23 March 2004 (2004-03-23) examples 1,2 claim 1	1-26
Y	----- DATABASE WPI Section Ch, Week 198601 Derwent Publications Ltd., London, GB; Class D25, AN 1986-004442 XP002344420 & JP 60 231876 A (AIR LIQUIDE L) 18 November 1985 (1985-11-18) abstract	1-26
Y	----- WO 90/11403 A (HYMAC LTD) 4 October 1990 (1990-10-04) page 3, line 34 - page 5, line 23 -----	1-26

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Information on patent family members

International Application No

PCT/FI2005/000113

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 01266295	A	24-10-1989	JP 1720923 C	24-12-1992
			JP 4003478 B	23-01-1992
JP 01148890	A	12-06-1989	JP 1723034 C	24-12-1992
			JP 4009232 B	19-02-1992
CA 2441841	A1	23-03-2004	US 2003070777 A1	17-04-2003
JP 60231876	A	18-11-1985	NONE	
WO 9011403	A	04-10-1990	CA 1340348 C	26-01-1999
			AT 106961 T	15-06-1994
			WO 9011403 A1	04-10-1990
			DE 69009750 D1	14-07-1994
			EP 0464110 A1	08-01-1992